

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (previously presented) An antireflective coating composition useful with a photoresist composition comprising an antireflective coating composition having at least one base which is not soluble in a solvent of the photoresist composition, wherein said at least one base which is not soluble in a solvent of the photoresist composition is selected from optionally substituted aminophylline, optionally substituted purine, optionally substituted 2,6-diaminopurine, optionally substituted 6-(dimethylamino)purine, optionally substituted xanthine, optionally substituted guanine, optionally substituted hypoxanthine, optionally substituted adenine, optionally substituted caffeine, optionally substituted theophylline, optionally substituted theobromine, optionally substituted cytosine, optionally substituted cytosine, optionally substituted thymine, optionally substituted azapyridines, optionally substituted 8-azaguanines, optionally substituted 2-hydroaminoazines, and mixtures thereof.
2. (original) The antireflective coating composition of claim 1 wherein the base has a solubility of less than or equal to 0.2 wt. % in a solvent of the photoresist composition.
3. (original) The antireflective coating composition of claim 1 wherein the base has a solubility of less than or equal to 0.15 wt. % in a solvent of the photoresist composition.
4. (original) The antireflective coating composition of claim 1 wherein the base has a solubility of less than or equal to 0.1 wt. % in a solvent of the photoresist composition.

5. (original) The antireflective coating composition of claim 1 wherein only one base which is not soluble in a solvent of the photoresist composition is present.

6. (original) The antireflective coating composition of claim 1 wherein the base is present in an amount of from about 0.001 to about 15 wt % based on the solids of the antireflective coating composition.

7. (original) The antireflective coating composition of claim 6 wherein the base is present in an amount of from about 0.001 to about 10 wt % based on the solids of the antireflective coating composition.

8. (original) The antireflective coating composition of claim 1 which further comprises at least one base which is soluble in a solvent of the photoresist composition.

9. (original) The antireflective coating composition of claim 1 which further comprises one or more components selected from polymers, crosslinking materials, solvents, photoacid generators, dyes and surface active agents.

Claims 10 to 15 (canceled)

Claims 16 to 31 (canceled)

32. (original) A method for forming an antireflective coating layer comprising the step of coating a substrate with the antireflective coating composition of claim 1.

33. (original) The method of claim 32 wherein for the antireflective coating composition, the base has a solubility of less than or equal to 0.2 wt. % in a solvent of the photoresist composition.

34. (original) The method of claim 32 wherein for the antireflective coating composition, the base has a solubility of less than or equal to 0.15 wt. % in a solvent of the photoresist composition.

35. (original) The method of claim 32 wherein for the antireflective coating composition, the base has a solubility of less than or equal to 0.1 wt. % in a solvent of the photoresist composition.

36. (original) The method of claim 32 wherein for (a) the base is present in an amount of from about 0.001 to about 15 wt % based on the solids of the antireflective coating composition.

37. (original) The method of claim 36 wherein the base is present in an amount of from about 0.001 to about 10 wt % based on the solids of the antireflective coating composition.

Claims 38 to 46 (canceled)